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Issued April 15, 1907.

## U. S. DEPARTMENT OF AGRICULTURE,

BUREAU OF ANIMAL INDUSTRY.—CIRCULAR NO. 106.

A. D. MELVIN, CHIEF OF BUREAU.

### PUBLICATIONS OF THE BUREAU OF ANIMAL INDUSTRY.

This circular has been compiled to meet a growing demand for a list of publications of the Bureau of Animal Industry. It presents a complete list of the regular series of annual reports, bulletins, and circulars of the Bureau up to April 1, 1907, but it has been considered impracticable and unnecessary to make the list complete as regards publications of a miscellaneous character, reprints, etc. It is believed, however, that all publications of any general interest or importance at the present time have been included. In addition to publications prepared by this Bureau, some other publications of the Department bearing on the subject of the animal industry have been included.

Publications for which no price is indicated will be sent free of charge to persons in the United States, so long as the editions permit, on application to the Secretary of Agriculture, Washington, D. C.

Applications for publications to which a price is affixed should be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., the official designated by law to sell Government publications. All payments should be made to him and not to the Department of Agriculture, and should be sent by postal money order, express order, or New York draft. Currency may be sent at the sender's risk, but postage stamps, foreign money, and uncertified checks will not be accepted. No charge is made for postage on documents forwarded to points in the United States, Guam, Hawaii, the Philippine Islands, or Porto Rico, or to Canada, Cuba, or Mexico. To other countries the regular rate of postage is charged, and remittances must cover such postage. To residents of foreign countries the price of 6 cents a copy, including postage, has been fixed for publications for which no price is indicated in the list.

The mailing list of the Bureau is limited to libraries, educational institutions, the press, State and foreign officials connected with agriculture, exchanges, and persons who are rendering tangible

service to the Department either by active cooperation in its work or as special correspondents. Owing to the variety of subjects on which publications are issued, the mailing list is classified according to subjects, professions, etc., and the Bureau keeps no list to which all its publications are sent.

Publications which are available, whether marked with a price or not, will be furnished free by the Bureau to those entitled to be on its mailing list. Requests of this nature, as well as publications sent in exchange, should be addressed directly to the Bureau.

The Bureau has a small reserve supply of the publications marked by an asterisk (\*), and copies will be supplied, as long as available, to libraries and investigators in order to complete their files or for purposes of special importance.

In addition to the publications listed in this circular the Bureau of Animal Industry has issued a large number of orders and regulations concerning the transportation, quarantine, inspection, etc., of live stock, the inspection of meats and meat-food products which are the subjects of interstate and foreign commerce, the inspection and certification of dairy products for export, and the inspection of renovated butter. It is not deemed desirable to list these here, as many of them are obsolete or out of print, and all regulations are included in the annual reports. Persons desiring the current regulations governing any of these matters should apply to the Bureau.

The Department's Monthly List of Publications, which announces publications issued and gives information as to how they may be obtained, will be sent regularly without charge to all who apply for it.

A. D. MELVIN,

*Chief of Bureau.*

Approved:

JAMES WILSON,

*Secretary of Agriculture.*

WASHINGTON, D. C., April 1, 1907.

[Cir. 106]

## ANNUAL REPORTS.

First Annual Report of the Bureau of Animal Industry for the year 1884. Pp. 512, pls. 15, maps 4. 1885. Price, cloth, 65 cents.

CONTENTS: Report of the Chief of the Bureau on contagious pneumonia, enzootics of ergotism, southern cattle fever, and swine plague.—Cattle interests west of the Mississippi River.—Live stock and meat traffic of Chicago.—Cattle interests of the West.—Gape disease of fowls.—Contagious pleuro-pneumonia in New Jersey.—Ergotism among cattle in Kansas.—International Veterinary Congress.—Hamburg international exhibition.—Outbreak of southern cattle fever in Kansas.—Investigation of southern cattle fever.—Contagious animal diseases.—Southern cattle fever in the Union Stock Yards.—Outbreak of swine plague in Maryland.—Outbreak of contagious pleuro-pneumonia in Delaware.—Texas fever; tuberculosis; glanders.—Canadian restrictions on American cattle.—Outbreak of glanders at Miami, Mo.—Southern cattle fever in Virginia.—Fatal outbreak of southern cattle fever.—Parasitic bronchitis among calves.—History of lung plague in Richmond County, N. Y.—United States cattle quarantine.—Act creating the Bureau of Animal Industry.—Trichiniasis.

Second Annual Report of the Bureau of Animal Industry for the year 1885. Pp. 662, pls. 11, map 1. 1886. Out of print.

CONTENTS: Report of the Chief of the Bureau on contagious pleuro-pneumonia, swine plague, southern cattle fever, gapes in fowls, verminous bronchitis (lung worms), and neat-cattle quarantine.—Report on the importance of the range industry.—Report on the condition of the live-stock industry of Colorado and the Territories of the Northwest.—Report on the cattle trade and dairy interests of Alabama, Georgia, Illinois, Indiana, and Ohio.—Report on the swine and fowl industry of Missouri, and the annual loss by disease.—Report on the cattle interests west of the Mississippi.—Report on the condition of the live-stock industry west of the Mississippi.—Investigation of swine plague in Nebraska.—The extension of contagious animal diseases and methods for their limitation.—Neat-cattle quarantine regulations.—Items of interest from correspondents.—Laws of the States and Territories for the control of contagious animal diseases.—Appendix: Investigation of contagious pleuro-pneumonia; details of inspections.

Third Annual Report of the Bureau of Animal Industry for the year 1886. Pp. 456, pls. 17. 1887. Price, cloth, 50 cents.

CONTENTS: Report of the Chief of the Bureau on progress of pleuro-pneumonia and action taken to control it, investigation of swine diseases, preliminary investigations concerning infectious pneumonia in swine, and United States neat-cattle quarantine stations.—Report on the condition of the range cattle industry.—Report on the cattle trade and allied industries of Michigan, Wisconsin, and Tennessee.—Calf raising on the plains.—Investigation of the disease known as "staggers" among horses in Virginia and North Carolina.—The cattle industry of California.—Investigation of the live-stock interests of Maryland.—Investigation of the "loco" plant and its effect on animals.—The dressed-meat traffic.—Laws of the States and Territories for the control of contagious animal diseases.—Appendix: Investigation of contagious pleuro-pneumonia; details of inspections.

Fourth and Fifth Annual Reports of the Bureau of Animal Industry for the years 1887 and 1888. Pp. 510, pls. 25. 1889. Price, cloth, 65 cents.

CONTENTS: Report of the Chief of the Bureau on the progress of the work of extirpating pleuro-pneumonia, beef supply of the United States and conditions governing the price of cattle, United States neat-cattle quarantine, glanders, nature and prevention of hog cholera, etiology of infectious pneumonia in swine, experiments on the attenuation of hog cholera by heat, prevention and treatment of hog cholera, and hog cholera in Sweden, Denmark, and France.—The tapeworm disease of sheep of the western plains.—Introduction and spread of hog cholera in the United States.—Condition of the cattle interests west of the Mississippi River.—Number and value of purebred cattle in the United States.—Papers accompanying the exhibit of the Bureau of Animal Industry at the Paris Exposition of 1889.—Outbreaks of southern cattle fever in Maryland.—Anthrax and southern fever among California cattle.—Destruction of California cattle by various diseases.—Simulium, or buffalo gnats, with special reference to their injurious effects upon animals.—Live-stock interests of Maryland.—Blackleg.

Sixth and Seventh Annual Reports of the Bureau of Animal Industry, for the years 1889 and 1890. Pp. 503. 1891. Price, cloth, 40 cents.

CONTENTS: Report of the Chief giving transactions of the Bureau for 1889.—Investigations of infectious animal diseases.—Transactions of the Bureau for 1890.—Miscellaneous scientific investigations.—Investigations of infectious animal diseases.—Report of the United States board of inquiry concerning epidemic diseases of swine.—The sheep of Great Britain.—Condition of the sheep industry west of the Mississippi River.—Condition of the live-stock industry of Wisconsin.—The Chicago horse show of 1890.—Reports from inspectors and correspondents.—Horse breeding in New Jersey.—Outbreak of disease among cattle in Missouri.—Glanders among horses and mules in Texas.—Regulating the transporting of southern cattle.—Pleuro-pneumonia in Great Britain, Scotland, and Ireland.—Condition of the animal industry of Kansas.—Condition of the live-stock industry of Colorado and Wyoming.—Exhibition of the Vermont Trotting-Horse Breeders' Association.—Infectious abortion of mares.—Laws of the States and Territories for the control of contagious diseases of domestic animals.

Eighth and Ninth Annual Reports of the Bureau of Animal Industry, for the years 1891 and 1892. Pp. 428, pls. 19, figs. 7. 1893. Price, cloth, 50 cents.

CONTENTS: Report of the Chief giving transactions of the Bureau for 1891.—Investigations of infectious diseases of domesticated animals.—Investigation of the effects of bacterial products in the prevention of diseases.—Transactions of the Bureau for 1892.—Investigations conducted by the Biochemic Laboratory.—Investigations relating to the treatment of lumpy jaw, or actinomycosis, in cattle.—Investigation into the nature, causation, and prevention of southern cattle fever.—Condition of the poultry and egg industry.—The mule: Its uses, how to breed, grow, prepare for the market, and sell.—Contagious diseases among domestic animals in foreign countries.—Supposed maladie du coit among horses in Nebraska.—Cattle and sheep industry of Colorado.—"Bottom disease" among horses in South Dakota.—Reports from inspectors and correspondents.—Laws of the States and Territories for the control of contagious and infectious diseases of domestic animals.

Tenth and Eleventh Annual Reports of the Bureau of Animal Industry, for the years 1893 and 1894. Pp. 127. 1896. Price, cloth, 20 cents.

CONTENTS: Report of the Chief giving transactions of the Bureau for the fiscal years 1893 and 1894.—Prevalence of anthrax among domesticated animals.—Exirpation of maladie du coit.—Prevalence of tuberculosis among cattle in New York.—Injuries to cattle from swallowing pointed objects.—Preliminary investigation of unknown diseases in turkeys.—Black quarter.—Actinomycosis, or lumpy jaw.—Australian meat trade.—Miscellaneous notes.—Laws of the States and Territories for the control of contagious animal diseases.

Twelfth and Thirteenth Annual Reports of the Bureau of Animal Industry, for the years 1895 and 1896. Pp. 362, pls. 38, figs. 4. 1897. Price, cloth, 50 cents.

CONTENTS: Report of the Chief giving transactions of the Bureau for the fiscal years 1895 and 1896.—Contagious diseases of animals in Great Britain.—Live-stock shipments from Canada, Argentina, and Australia to England.—Texas fever in Australia.—The curing of meats.—Dipping cattle for the destruction of ticks.—Investigations of diseases of domestic animals.—Infectious leukemia in fowls.—Tuberculosis in swine.—Outbreak of a nonspecific disease among swine.—"Leeches:" A histological investigation of two cases of an equine mycosis.—Preliminary investigation concerning the number and nature of bacteria in freshly drawn milk.—A report on rabies in Washington, D. C.—The detection of tuberculosis in cattle.—Creameries or butter factories: Advantages, location, organization, and equipment.—Miscellaneous reports of inspectors and correspondents.—Laws of States and Territories for the control of contagious animal diseases.

Fourteenth Annual Report of the Bureau of Animal Industry, for the year 1897. Pp. 727, pls. 6, figs. 54. 1898. Price, cloth, 65 cents.

CONTENTS: Report of the Chief of the Bureau.—Outline of work pursued by the Bureau of Animal Industry.—Some essentials in beef production.—Contagious diseases in European countries.—The curing of bacon.—Sheep scab: Its nature and treatment.—Investigations relative to sheep scab.—Anthrax in the lower Mississippi Valley.—Enzootic cerebro-spinal meningitis in horses and hog cholera in Idaho.—Investigation of alleged rabies in Nebraska.—Some agricultural experiment station work.—Miscellaneous statistics regarding the animal industry.—Rules and regulations of the Bureau of Animal Industry, 1885-1897.—Laws of States and Territories for the control of contagious animal diseases.—Laws of States and Territories relative to dairy products.

Fifteenth Annual Report of the Bureau of Animal Industry, for the year 1898. Pp. 647, pls. 26, figs. 69. 1899. Price, paper, 65 cents; cloth, 75 cents.

CONTENTS: Report of the Chief of the Bureau.—Blackleg in the United States and the distribution of vaccine by the Bureau of Animal Industry.—Report upon experimental exports of butter, 1897.—Breeds of dairy cattle.—Fifty dairy rules.—Meat and milk inspection in Shanghai.—Agriculture and dairying in

Scotland.—The vitality and retention of virulence of certain pathogenic bacteria in milk and its products.—Colored spots in cheese.—The serum treatment for swine plague and hog cholera.—Experiments in stamping out hog cholera in Page County, Iowa.—The enzymes, or soluble ferments, of the hog cholera germ.—The production of immunity in guinea pigs from hog cholera by the use of blood serum from immunized animals.—Inoculation to produce immunity from Texas fever in northern cattle.—Investigations concerning tuberculosis and glanders.—Asthema (going light) in fowls.—Laboratory methods for the diagnosis of certain micro-organismal diseases.—Breeding zebroids.—The military administration of Germany in its relation to national horse breeding.—The cattle industry of Colorado, Wyoming, and Nevada, and the sheep industry in Colorado in 1897.—A cattle disease in Marshall County, Kans.—A cattle disease in Uruguay.—The cattle tick and tuberculosis in New South Wales.—Preliminary catalogue of plants poisonous to stock.—Feeding wild plants to sheep.—Cooperation between the experiment station veterinarian and the local veterinarian.—Contagious diseases of animals in European countries.—American animals and animal productions in Great Britain.—Some agricultural experiment station work.—Extracts from consular reports.—Miscellaneous statistics regarding the animal industry.—Rules and regulations of the Bureau of Animal Industry issued in 1898.

Sixteenth Annual Report of the Bureau of Animal Industry, for the year 1899. Pp. 790, pls. 41, figs. 45. 1900. Price, paper, 70 cents; cloth, 85 cents.

CONTENTS: Report of the Chief of the Bureau.—Experiments with Texas fever and southern cattle ticks.—Some examples of the development of knowledge concerning animal diseases.—Administrative work of the Federal Government in relation to the animal industry.—International congress for the consideration of the best methods for checking or curing tuberculosis.—Second outbreak of maladie du coit in Nebraska.—Culture media for biochemical investigations.—A report upon an examination of milk.—Report upon experimental exports of butter, 1898-99.—Dairy development in the United States.—Notes upon dairying in California and the export of California butter to the Orient.—Statistics of oleomargarine, oleo oil, and filled cheese.—Foreign markets for eggs and poultry.—Disposition of dead animals in foreign cities.—Hog raising in the South.—The manufacture and exportation of tasajo, or jerked beef, by the River Plata countries.—Trade of Porto Rico in animals and animal products.—Imports of animals and animal products into the United Kingdom.—Imports and exports of animals and animal products.—Number of live stock in foreign countries.—Some agricultural experiment station work.—Contagious diseases of animals in foreign countries.—Miscellaneous information.—The seventh international veterinary congress.—Notes on parasites.—Our present knowledge of the kidney worm of swine.—The nature, cause, and economic importance of ovine caseous lymphadenitis.—Notes on the animal industry of Porto Rico.—Miscellaneous statistics regarding the animal industry.—Rules and regulations of the Bureau of Animal Industry issued in 1899.—Laws for the control of contagious diseases of animals.

Seventeenth Annual Report of the Bureau of Animal Industry, for the year 1900. Pp. 642, pls. 98, figs. 238. 1901. Price, paper, 70 cents; cloth, 85 cents.

CONTENTS: Report of the Chief of the Bureau.—The free distribution of blackleg vaccine: Results, prospects, and cost.—Pathological conditions found in meat inspection.—International live-stock exposition of 1900.—The work against sheep scab.—Ocean transportation of cattle and horses.—Plant poisoning of stock in Montana.—Rabies: Its cause, frequency, and treatment.—Market milk: A plan for its improvement.—Dairy products at the Paris Exposition of 1900.—Meat and meat products at the Paris Exposition of 1900.—Poultry raising on the farm.—Chinese incubators.—The thirteenth international medical congress.—The tenth international congress of hygiene and demography.—The bacillus of tuberculosis.—Information concerning the Angora goat.—Verminous diseases of cattle, sheep, and goats in Texas.—The cattle ticks of the United States.—Contagious diseases of animals in foreign countries.—Miscellaneous information.—The Imperial German meat-inspection law.—Miscellaneous statistics.—Rules and regulations of the Bureau of Animal Industry issued in 1900.

Eighteenth Annual Report of the Bureau of Animal Industry, for the year 1901. Pp. 706, pls. 117, figs. 224. 1902. Price, paper, 75 cents; cloth, 90 cents.

CONTENTS: Report of the Chief of the Bureau.—Emergency report on surra.—The significance of the recent American cases of hookworm disease in man.—Frogs, toads, and carp as eradicators of fluke disease.—Further investigations on verminous diseases of cattle, sheep, and goats in Texas.—“Big head” of sheep in Utah.—Blood poisoning in sheep and lambs in New Zealand.—Federal inspection of foreign and interstate shipments of live stock.—Food products from diseased animals.—Tuberculosis of animals in some of its relations to human tuberculosis.—The cattle industry of the United States.—Lamb feeding in Colorado.—Cattle markets and abattoirs in Europe.—The dairy industry and dairy markets of Porto Rico.—Statistics of oleomargarine, oleo oil, and filled cheese.—The business of breeding purebred stock.—Market classes of horses.—The Angora goat industry.—Mohair and mohair manufacturers.—The musk ox.—American breeds of fowls.—A variety of the hog-cholera bacillus which closely resembles *Bacillus typhosus*.—Notes on branched forms of tubercle bacilli found in cultures.—The use

of eggs as a medium for the cultivation of *Bacillus tuberculosis*.—Virulence of the bovine tuberculosis bacillus for monkeys.—Results of the work against sheep scab in 1901.—Contagious diseases of animals in foreign countries.—Miscellaneous information.—Miscellaneous statistics.—Rules and regulations of the Bureau of Animal Industry issued in 1901.

Nineteenth Annual Report of the Bureau of Animal Industry, for the year 1902. Pp. 651, pls. 60, map 1, figs. 17. 1903. Price, cloth, 65 cents.

CONTENTS: Report of the Chief of the Bureau.—The work against sheep scab in 1902.—Scabies in cattle.—The American saddle horse.—Sheep ranching in the Western States.—Welsh mountain sheep.—Feeding native steers.—The relation of protein in cotton-seed meal, cowpea hay, and wheat bran.—Distribution and magnitude of the poultry and egg industry.—The water content of creamery butter.—The duration of the life of the tubercle bacillus in cheese.—Feeding fat into milk.—Statistics of oleo-margarine, oleo oil, and filled cheese.—The quarantine station at Athenia.—Report on an enzootic among cattle caused by a bacillus of the *Enteritidis* group.—Bovine tuberculosis and other animal diseases affecting the public health.—Takosis in goats.—Foot-and-mouth disease.—Voges's description of a mal de caderas, a South African trypanosomatic disease of domestic animals.—Contagious diseases of animals in foreign countries.—Some agricultural experiment station work.—Miscellaneous information.—Miscellaneous statistics.—Rules and regulations of the Bureau of Animal Industry issued in 1902.

Twentieth Annual Report of the Bureau of Animal Industry, for the year 1903. Pp. 618, pls. 22, figs. 58. 1904. Price, cloth, 50 cents.

CONTENTS: Report of the Chief of the Bureau.—Report of the work against sheep scab in 1903.—Pathological report on a case of rabies in a woman.—Spread of tuberculosis among healthy cattle upon exposure to tuberculous cattle.—Some observations on the tuberculosis of animals.—Bovine tuberculosis affecting the public health.—A chemical examination of various tubercle bacilli.—The desirability of phosphates as an addition to culture media for tubercle bacilli.—Certain variations in the morphology of tubercle bacilli of bovine origin.—Influence of formaldehyde on the digestive enzymes.—Pulmonary mycosis of birds.—Invisible micro-organisms.—New facts concerning the etiology of hog cholera.—Infectious and contagious diseases of farm animals and their effect on American agriculture.—Facts concerning the history, commerce, and manufacture of butter.—The cold curing of cheese.—Some details of pig management.—A review of some experimental work in pig feeding.—Growth of the cattle industry in Cuba.—A plan for the improvement of American breeding stock.—Information concerning common goats.—Meat on the farm.—Bacon curing on the farm.—Reindeer and caribou.—The Government's importation of camels.—Miscellaneous information.—Contagious diseases of animals in foreign countries.—Miscellaneous statistics, etc.—Rules and regulations of the Bureau of Animal Industry issued in 1903.

Twenty-first Annual Report of the Animal Industry, for the year 1904. Pp. 632, pls. 48, figs. 50. 1905. Price, cloth, 55 cents.

CONTENTS: Report of the Chief of the Bureau.—The danger of infection with tuberculosis by different kinds of exposure.—Enzymes in cornstalks and their relation to cornstalk disease.—*Bacillus necrophorus* and its economic importance.—Foot rot of sheep.—The etiology of hog cholera.—Experiments concerning tuberculosis.—Hunter horse production in Ireland.—Highland cattle.—Alfalfa for the growing and fattening of animals in the Great Plains region.—The tapeworms of American chickens and turkeys.—Incubation and incubators.—The poultry industry of Petaluma, Cal.—Information concerning the milch goats.—Notes on the Angora-goat industry.—A consideration of mohair and mohair growing.—The exhibit of the Bureau of Animal Industry at the Louisiana Purchase Exposition.—Miscellaneous information.—Report of the work against sheep scab in 1904.—Contagious diseases of animals in foreign countries.—Miscellaneous statistics, etc.—Rules and regulations of the Bureau of Animal Industry issued in 1904.

Twenty-second Annual Report of the Bureau of Animal Industry, for the year 1905. Pp. 364, pls. 23, figs. 22. 1907. Price, cloth, 55 cents.

CONTENTS: Report of the Chief of the Bureau.—Notes on the cattle tick and Texas fever.—The persistence of the Texas fever organism in the blood of southern cattle.—Soft-cheese studies in Europe.—Records of dairy cows: Their value and importance in economic milk production.—Government encouragement of imported breeds of horses.—Welsh Black cattle.—Baby beef.—Poultry management.—Capons and caponizing.—Annual production of animals for food and per capita consumption of meat in the United States.—Market prices of live stock.—The movement of live stock.—Registered live stock in the United States.—Contagious diseases of animals in foreign countries.—Publications of the Bureau during 1905.—Rules and regulations of the Bureau of Animal Industry issued in 1905.—Act of Congress approved March 3, 1905.

## REPORTS OF THE CHIEF OF THE BUREAU.

Report of the Chief for 1884. By D. E. Salmon. (In Annual Report of the Commissioner of Agriculture for 1884.) Pp. 104, pls. 9, maps 3. 1884. Out of print.

Same, 1885. By D. E. Salmon. (In Annual Report of the Commissioner of Agriculture for 1885.) Pp. 138, pls. 6, map 1. 1885. Out of print.

Same, 1886. By D. E. Salmon. (In Annual Report of the Commissioner of Agriculture for 1886.) Pp. 93, pls. 9. 1887. Out of print.

Same, 1887. By D. E. Salmon. (In Annual Report of the Commissioner of Agriculture for 1887.) Pp. 66, pls. 4. 1887. Out of print.

Same, 1888. By D. E. Salmon. (In Annual Report of the Commissioner of Agriculture for 1888.) Pp. 75. 1889. Out of print.

Same, 1889. By D. E. Salmon. Pp. 64. 1890. Out of print.

Same, 1890. By D. E. Salmon. Pp. 60. 1891.

Same, 1891. By D. E. Salmon. Pp. 60. 1892.

Same, 1892. By D. E. Salmon. Pp. 40. 1893. Out of print.

Same, 1893. By D. E. Salmon. Pp. 49. 1894. Out of print.

Same, 1894. By D. E. Salmon. (In Annual Report of the Secretary of Agriculture, Message and Documents for 1893-94.) Pp. 10. Out of print.

Same, 1895. By D. E. Salmon. Pp. 13. 1895.

Same, 1896. By D. E. Salmon. Pp. 14. 1896.

Same, 1897. By D. E. Salmon. Pp. 14. 1897.

Same, 1898. By D. E. Salmon. Pp. 13. 1898.

Same, 1899. By D. E. Salmon. Pp. 20. 1899.

Same, 1900. By D. E. Salmon. Pp. 21. 1900.

Same, 1901. By D. E. Salmon. Pp. 28. 1901.

Same, 1902. By D. E. Salmon. Pp. 22. 1902.

Same, 1903. By D. E. Salmon. Pp. 37. 1903.

Same, 1904. By D. E. Salmon. Pp. 25. 1904.

Same, 1905. By D. E. Salmon. Pp. 38. 1905.

Same, 1906. By A. D. Melvin. Pp. 56. 1906.

## BULLETINS.

[In applying for these bulletins the name of the Bureau should be given as well as the number of the bulletin; e. g., "Bureau of Animal Industry Bulletin 1."]

Bulletin 1. Investigations into the nature, causation, and prevention of Texas or southern cattle fever. By Theobald Smith and F. L. Kilborne. Pp. 301, pls. 10, figs. 7. 1893. Out of print.

Bulletin 2. Report upon investigations relating to the treatment of lumpy jaw, or actinomycosis, in cattle. By D. E. Salmon. Pp. 90, pls. 8. 1893. Out of print.

Bulletin 3. Miscellaneous investigations concerning infectious and parasitic diseases of domesticated animals. By F. L. Kilborne, Veranus A. Moore, E. C. Schroeder, Theobald Smith, and C. W. Stiles. Pp. 88, pls. 3. 1893. Out of print.

\*Bulletin 4. A revision of the adult cestodes of cattle, sheep, and allied animals. By C. W. Stiles and Albert Hassall. Pp. 134, pls. 16. 1893. Out of print.

- Bulletin 5. Report on the dairy industry of Denmark. By C. C. Georgeson. Pp. 133, figs. 33. 1893. Out of print.
- Bulletin 6. Additional investigations concerning infectious swine diseases. By Theobald Smith and Veranus A. Moore. Pp. 117. 1894. Out of print.
- \*Bulletin 7. Investigations concerning bovine tuberculosis, with special reference to diagnosis and prevention. By Theobald Smith, F. L. Kilborne, E. C. Schroeder, and E. A. de Schweinitz. Pp. 178, pls. 6. 1894. Out of print.
- Bulletin 8. Investigations concerning infectious diseases among poultry. By Theobald Smith and Veranus A. Moore. Pp. 90, pls. 6. 1895. Price, 15 cents.
- Bulletin 9. Rules and regulations governing the operations of the Bureau of Animal Industry; also the acts of Congress under which they are made. Pp. 46. 1895.
- Bulletin 10. Cornstalk diseases and rabies in cattle. By Veranus A. Moore and E. A. de Schweinitz. Pp. 92, pls. 2. 1896. Price, 10 cents.
- Bulletin 11. Statistics of the dairy. Compiled from the United States census of 1890, and from other reliable sources, with explanatory notes. By Henry E. Alvord. Pp. 53, diagr. 5, map 1. 1896. Price, 5 cents.
- Bulletin 12. Tapeworms of poultry. [1] Report upon the present knowledge of the tapeworms of poultry. By Ch. Wardell Stiles.—[2] Bibliography of the tapeworms of poultry. By Albert Hassall. Pp. 88, pls. 21. 1896. Price, 15 cents.
- \*Bulletin 13. Tuberculosis investigations. [1] The growth of the tuberculosis bacillus upon acid media. By E. A. de Schweinitz and Marion Dorset.—[2] Further experiments with an attenuated tuberculosis bacillus. By E. A. de Schweinitz and E. C. Schroeder.—[3] The effect of tuberculin injections upon the milk of healthy and diseased cows. By E. A. de Schweinitz. Pp. 27, pls. 2, figs. 7. 1896. Out of print.
- Bulletin 14. Dairying in California. By E. J. Wickson. Pp. 31, map 1. 1896. Price, 5 cents.
- Bulletin 15. The cheese industry of the State of New York. By B. D. Gilbert. Pp. 54. 1896. Price, 5 cents.
- Bulletin 16. The dairy industry in Nebraska, South Dakota, and North Dakota. By John H. Monrad. Pp. 21. 1896. Price, 5 cents.
- \*Bulletin 17. Dairy schools. By R. A. Pearson. Pp. 38, pls. 4, figs. 2. 1896. Out of print.
- Bulletin 18. The dairy industry in Missouri and Kansas. By Levi Chubbuck. Pp. 23, maps 2. 1897. Price, 5 cents.
- \*Bulletin 19. The inspection of meats for animal parasites. I. The flukes and tapeworms of cattle, sheep, and swine, with special reference to the inspection of meats. By Ch. Wardell Stiles.—II. Compendium of the parasites, arranged according to their hosts. By Albert Hassall.—III. Bibliography of the more important works cited. By Albert Hassall. Pp. 161, figs. 124. 1898. Out of print.
- \*Bulletin 20. The milk supply of Boston and other New England cities. By George M. Whitaker. Pp. 37, pls. 3. 1898. Out of print.
- Bulletin 21. Sheep scab: Its nature and treatment. By D. E. Salmon and Ch. Wardell Stiles. Pp. 64, pls. 6, figs. 36. 1898. Out of print.
- Same, revised, 1900. Pp. 64, pls. 6, figs. 36. Price, 15 cents.
- Bulletin 22. Proceedings of the second annual meeting of the association of Experiment Station Veterinarians, held at Omaha, Nebr., September 8, 1898. Pp. 29. 1898. Price, 5 cents..

Bulletin 23. The serum treatment of swine plague and hog cholera. By E. A. de Schweinitz, with the collaboration of Marion Dorset and E. C. Schroeder. Pp. 18. 1899. Price, 5 cents.

Bulletin 24. Notes upon dairying in California and the export of California butter to the Orient. By R. A. Pearson. Pp. 29, pls. 4, fig. 1. 1900. Price, 5 cents.

Bulletin 25. Rabies. Report of the committee on public health of the Medical Society of the District of Columbia. Pp. 29. 1900. Price, 5 cents.

Bulletin 26. National and State dairy laws. Compiled and abstracted by R. A. Pearson. Pp. 110. 1900. Price, 10 cents.

Bulletin 27. Information concerning the Angora goat. By George Fayette Thompson. Pp. 94, pls. 17, fig. 1. 1901. Out of print.

Same, revised, 1906, by Sallie Russell Reeves. Pp. 77, pls. 14, figs. 2. 1907. Price, 15 cents.

Bulletin 28. Legislation with reference to bovine tuberculosis, being a digest of the laws now in force and a transcript of the laws, rules and regulations, and proclamations for the several States and Territories. By D. E. Salmon. Pp. 173. 1901. Price, 10 cents.

Bulletin 29. American breeds of fowls. I. The Plymouth Rock. By T. F. McGrew. Pp. 32, pls. 6, figs. 10. 1901. Price, 15 cents.

Bulletin 30. Trichinosis in Germany. I. General remarks on trichinosis in Germany.—II. A statistical review of trichinosis in Germany during the eighteen years 1881-1898.—III. European cases of trichinosis of alleged American origin. By Ch. Wardell Stiles.—IV. Bibliography of trichinosis in Germany. By Albert Hassall. Pp. 211. 1901. Out of print.

Bulletin 31. American breeds of fowls. II. The Wyandotte. By T. F. McGrew. Pp. 30, pls. 10, figs. 3. 1901. Price, 15 cents.

Bulletin 32. The tuberculin test of imported cattle. By D. E. Salmon. Pp. 22. 1901. Price, 5 cents.

Bulletin 33. Relation of bovine tuberculosis to the public health. By D. E. Salmon. Pp. 36. 1901. Price, 5 cents.

Bulletin 34. American breeds of beef cattle, with remarks on pedigrees. By George M. Rommel. Pp. 34, pls. 23. 1902. Price, 20 cents.

Bulletin 35. Eleven miscellaneous papers on animal parasites. By Ch. Wardell Stiles, Albert Hassall, W. Ashby Frankland, and Louise Tayler. Pp. 61, pls. 5, figs. 38. 1902. Price, 10 cents.

Bulletin 36. Apoplectiform septicemia in chickens. By Victor A. Nørgaard and John R. Mohler. Pp. 24, pls. 4. 1902. Out of print.

Bulletin 37. Market classes of horses. By George M. Rommel. Pp. 32, pls. 12. 1902. Price, 15 cents.

Bulletin 38. Tuberculosis of the food-producing animals. By D. E. Salmon. Pp. 99, pls. 9. 1906. Price, 40 cents.

Bulletin 39. Index-catalogue of medical and veterinary zoology. By Ch. Wardell Stiles and Albert Hassall. \*Part 1. Authors: A to Azevedo. Pp. 1-46. 1902. Out of print.

Same, Part 2. Authors: B to Buxton. Pp. 47-198. 1903. Price, 10 cents.

Same, Part 3. Authors: C to Czygan. Pp. 199-324. 1903. Price, 10 cents.

Same, Part 4. Authors: D to Dziembowski. Pp. 325-403. 1903. Price, 5 cents.

Same, Part 5. Authors: E to Eyssel. Pp. 405-435. 1903. Price, 5 cents.

Bulletin 39. Part 6. Authors: F to Fynney. Pp. 437-510. 1908. Price, 5 cents.

Same, Part 7. Authors: G to Gmelin. Pp. 511-572. 1904. Price, 5 cents.

Same, Part 8. Authors: Gobée to Gyser. Pp. 573-659. 1904. Price, 5 cents.

Same, Part 9. Authors: H to Heim. Pp. 661-706. 1905. Price, 5 cents.

Same, Part 10. Authors: Heim to Hyrtl. Pp. 707-782. 1905. Price, 5 cents.

Same, Part 11. Authors: I to a Juvattis. Pp. 783-838. 1905. Price, 5 cents.

Same, Part 12. Authors: K to Kohl. Pp. 839-902. 1905. Price, 5 cents.

Same, Part 13. Authors: Kohl to Kynsey. Pp. 903-950. 1905. Price, 5 cents.

Same, Part 14. Authors: L to Léger. Pp. 951-1044. 1906. Price, 10 cents.

Same, Part 15. Authors: Legg to van der Linden. Pp. 1045-1116. 1906. Price, 10 cents.

Same, Part 16. Authors: von Linden to Lyutkevich. Pp. 1117-1208. 1906. Price, 10 cents.

Bulletin 40. Description and treatment of scabies in cattle. By Richard W. Hickman. Pp. 23, pl. 1, figs. 16. 1902. Out of print. (Now published as Farmers' Bulletin 152.)

Bulletin 41. Mexico as a market for purebred beef cattle from the United States. By D. E. Salmon. Pp. 28, map 1. 1902. Price, 10 cents.

Bulletin 42. Emergency report on surra. By D. E. Salmon and Ch. Wardell Stiles. With a bibliography of surra and allied trypanosomatic diseases. By Albert Hassall. Pp. 152, pls. 16, figs. 112. 1902. Price, 15 cents.

Bulletin 43. State and Territorial laws relating to contagious and infectious diseases of animals, 1901. Pp. 72. 1902. Out of print.

Bulletin 44. Infectiveness of milk of cows which have reacted to the tuberculin test. By John R. Mohler. Pp. 93, pls. 2. 1903. Price, 10 cents.

Bulletin 45. Takosis, a contagious disease of goats. A preliminary report on its nature, cause, and prevention. By John R. Mohler and Henry J. Washburn. Pp. 44, pls. 5. 1903. Price, 10 cents.

Bulletin 46. The milk supply of two hundred cities and towns. By Henry E. Alvord and R. A. Pearson. Pp. 210. 1903. Price, 15 cents.

Bulletin 47. The hog industry. Selection, feeding, and management. Recent experimental work. Statistics of production and trade. By George M. Rommel. Pp. 298, maps 3. 1904. Price, 30 cents.

Bulletin 48. The animal industry of Argentina. By Frank W. Bicknell. Pp. 72, pls. 16. 1903. Price, 20 cents.

Bulletin 49. The cold curing of cheese. Report upon experiments conducted under the auspices of the United States Department of Agriculture, Bureau of Animal Industry, Dairy Division, in cooperation with the Wisconsin Agricultural Experiment Station and the New York Agricultural Experiment Station. By S. M. Babcock and H. L. Russell, assisted by U. S. Baer, L. L. Van Slyke, G. A. Smith, and E. B. Hart. Pp. 88, pls. 4, figs. 22. 1903. Price, 10 cents.

Bulletin 50. German meat regulations. With original text. Pp. 51. 1903. Price, 5 cents.

Bulletin 51. The available energy of timothy hay. Investigations with the respiration calorimeter, in cooperation with the Pennsylvania State College Agricultural Experiment Station. By Henry Prentiss Armsby and J. August Fries. Pp. 77, pls. 2, diagr. 4. 1903. Price, 10 cents.

Bulletin 52. Experiments concerning tuberculosis, under the supervision of the Bio-chemical Division. Part I. The virulence of human and bovine tubercle bacilli for guinea pigs and rabbits. By Marion Dorset. Pp. 30, pls. 5. 1904. Price, 10 cents.

Same, Part II. The comparative virulence of human and bovine tubercle bacilli for some large animals. By E. A. de Schweinitz, Marion Dorset, and E. C. Schroeder. Pp. v, 31-100, pls. 26. 1905. Price, 65 cents.

Same, Part III. Studies in immunity from tuberculosis. By E. C. Schroeder. The persistence of tubercle bacilli in tissues of animals after injection. By E. C. Schroeder and W. E. Cotton. Pp. v, 101-125. 1905. Price, 5 cents.

Bulletin 53. Reports on bovine tuberculosis and public health. By D. E. Salmon. Pp. 63. 1904. Price, 5 cents.

Bulletin 54. Laws (Federal, State, and Territorial) relating to contagious and infectious diseases of animals, 1902 and 1904. Pp. 46. 1904. Price, 5 cents.

Bulletin 55. Statistics of the dairy. Compiled from the United States census for 1900 and from other reliable sources, with explanatory notes. By Henry E. Alvord. Pp. 88, pls. 9. 1903. Price, 10 cents.

Bulletin 56. Digestion experiments with poultry. By E. W. Brown. Pp. 112, pls. 4, charts 2. 1904. Price, 20 cents.

Bulletin 57. Studies upon the keeping quality of butter.—I. Canned butter. By Lore A. Rogers. Pp. 24. 1904. Price, 5 cents.

Bulletin 58. The fat testing of cream by the Babcock method. By Ed. H. Webster and C. E. Gray. Pp. 29, pls. 2, fig. 1. 1904. Price, 5 cents.

Bulletin 59. The farm separator: Its relation to the creamery and to the creamery patron. By Ed. H. Webster. Pp. 47. 1904. Price, 5 cents.

Bulletin 60. Manson's eye worm of chickens (*Oxyspirura Mansonii*), with a general review of nematodes parasitic in the eyes of birds, and notes on the spiny-suckered tapeworms of chickens (*Davainea echinobothrida* (= *Tanmia botrioplites*) and *D. tetragona*). By B. H. Ransom. Pp. 72, pl. 1, figs. 52. 1904. Price, 20 cents.

Bulletin 61. The score card in stock judging at agricultural colleges. By George M. Rommel. Pp. 124, pls. 16, figs. 11. 1904. Price, 25 cents.

Bulletin 62. The relation of bacteria to the flavors of Cheddar cheese. By Lore A. Rogers. Pp. 38, fig. 1. 1904. Price, 5 cents.

Bulletin 63. Foot rot of sheep: Its nature, cause, and treatment. By John R. Mohler and Henry J. Washburn. Pp. 39, pls. 3, fig. 1. 1905. Price, 10 cents.

Bulletin 64. State stock breeders' associations. By George M. Rommel. Pp. 53. 1904. Price, 5 cents.

Bulletin 65. The poultry and egg industry of leading European countries. By Andrew Fossum. Pp. 79. 1904. Price, 5 cents.

Bulletin 66. The gid parasite (*Cænurus cerebralis*): Its presence in American sheep. By B. H. Ransom. Pp. 23, figs. 12. 1905. Price, 5 cents.

Bulletin 67. Necrotic stomatitis. With special reference to its occurrence in calves (calf diphtheria) and pigs (sore mouth). By John R. Mohler and George Byron Morse. Pp. 48, pls. 5. 1905. Price, 10 cents.

Bulletin 68. Information concerning the milch goats. By George Fayette Thompson. Pp. 87, pls. 16, figs. 7. 1905. Price, 15 cents.

Bulletin 69. The external parasites of hogs, being articles on the hog louse (*Hæmatopinus suis*) and mange, or scabies, of hogs. By Earle C. Stevenson. Pp. 44, figs. 29. 1905. Price, 5 cents.

Bulletin 70. The milk supply of twenty-nine southern cities. By C. F. Doane. Pp. 40. 1905. Price, 5 cents.

Bulletin 71. The Camembert type of soft cheese in the United States. By H. W. Conn, Charles Thom, A. W. Bosworth, W. A. Stocking, jr., and T. W. Issajeff. Pp. 29, pls. 2. 1905. Price, 5 cents.

Bulletin 72. The etiology of hog cholera. By M. Dorset, B. M. Bolton, and C. N. McBryde. Pp. 101, pls. 6. 1905. Price, 10 cents.

Bulletin 73. The bacteria of pasteurized and unpasteurized milk under laboratory conditions. By Lore A. Rogers. Pp. 32. 1905. Price, 5 cents.

Bulletin 74. Energy values of red clover hay and maize meal. Investigations with the respiration calorimeter in cooperation with the Pennsylvania State College Agricultural Experiment Station. By Henry Prentiss Armsby and J. August Fries. Pp. 64, diagr. 3. 1905. Price, 5 cents.

Bulletin 75. Records of dairy cows in the United States. By Clarence B. Lane. Pp. 184, pls. 17, figs. 6. 1905. Price, 15 cents.

Bulletin 76. The score card in stock breeding. By George M. Rommel. Pp. 54, figs. 7. 1905. Price, 5 cents.

Bulletin 77. Cattle, sheep, and hog feeding in Europe. By Willard John Kennedy. Pp. 98. 1905. Price, 5 cents.

Bulletin 78. Texas fever (otherwise known as tick fever, splenetic fever, or southern cattle fever), with methods for its prevention. By John R. Mohler. Pp. 48, pls. 3, figs. 3. 1905. Price, 10 cents.

Bulletin 79. The determination of generic types, and a list of roundworm genera, with their original and type species. By Ch. Wardell Stiles and Albert Hassall. Pp. 150. 1905. Out of print.

Bulletin 80. The synonymy of *Taenia*, *T. crassicollis*, *T. marginata*, *T. serrata*, *T. caenurus*, *T. serialis*, and *Echinococcus*. By Ch. Wardell Stiles and Earle C. Stevenson. Pp. 14. 1905. Price, 5 cents.

Bulletin 81. The milk supply of Boston, New York, and Philadelphia. By George M. Whitaker. Pp. 62, figs. 4. 1905. Price, 5 cents.

Bulletin 82. Fungi in cheese ripening: Camembert and Roquefort. By Charles Thom. Pp. 39, figs. 3. 1906. Price, 5 cents.

Bulletin 83. The cold storage of cheese. (Experiments of 1903-4.) By Clarence B. Lane. Pp. 26, pls. 6, figs. 4. 1906. Price, 10 cents.

Bulletin 84. Investigations in the manufacture and storage of butter.—I. The keeping qualities of butter made under different conditions and stored at different temperatures. By C. E. Gray. With remarks on the scoring of the butter. By G. L. McKay. Pp. 24. 1906. Price, 10 cents.

Bulletin 85. Investigations in the manufacture and curing of cheese.—VI. The cold curing of American cheese, with a digest of previous work on the subject. By C. F. Doane. Pp. 68. 1906. Price, 10 cents.

Bulletin 86. Experiments with milk artificially infected with tubercle bacilli. By E. C. Schroeder and W. E. Cotton. Pp. 19. 1906. Price, 10 cents.

Bulletin 87. Market milk investigations.—II. The milk and cream exhibit at the National Dairy Show, 1906. By Clarence B. Lane. Pp. 21, pls. 4. 1906. Price, 10 cents.

Bulletin 88. The tuberculin test of hogs and some methods of their infection with tuberculosis. By E. C. Schroeder and John R. Mohler. Pp. 51. 1906. Price, 10 cents.

Bulletin 89. Investigations in the manufacture and storage of butter.—II. Preventing molds in butter tubs. By L. A. Rogers. Pp. 13, fig. 1. 1906. Price, 5 cents.

Bulletin 90. Poultry investigations at the Maine Agricultural Experiment Station. By Charles D. Woods and Gilbert M. Gowell. Pp. 42, pls. 5, figs. 2. 1906. Price, 15 cents.

Bulletin 91. Feeding prickly pear to stock in Texas. By David Griffiths. Pp. 23, pls. 3, fig. 1. 1906. Price, 10 cents.

Bulletin 92. The milking machine as a factor in dairying. (A preliminary report.)—I. Practical studies of a milking machine. By C. B. Lane.—II. Bacteriological studies of a milking machine. By W. A. Stocking, jr. Pp. 55, pls. 4, figs. 6. 1906. Price, 15 cents.

Bulletin 93. The relation of tuberculous lesions to the mode of infection. By E. C. Schroeder and W. E. Cotton. Pp. 19. 1906. Price, 5 cents.

Bulletin 94. Investigations in the use of the bomb calorimeter. By J. August Fries. Pp. 39. 1907. Price, 10 cents.

Bulletin 95. The bacteriolytic power of the blood serum of hogs. By B. M. Bolton. Pp. 62, figs. 4. 1907. Price, 10 cents.

Bulletin 96. A comparative study of tubercle bacilli from varied sources. By John R. Mohler and Henry J. Washburn. (In press.)

Bulletin 97. Proceedings of a conference of Federal and State representatives to consider plans for the eradication of the cattle tick, held at Nashville, December 5 and 6, 1906. Pp. 98. 1907. Price, 15 cents.

#### CIRCULARS.

[In applying for these circulars the name of the Bureau should be given as well as the number of the circular; e. g., "Bureau of Animal Industry Circular 1."]

Circular 1, revised. Directions for the pasteurization of milk. By D. E. Salmon. Pp. 2, figs. 2. 1897.

This circular first appeared under date of December 19, 1893, unnumbered, as "Directions for the sterilization of milk."

\*Circular 2. Wheat as a food for growing and fattening animals. By D. E. Salmon. Pp. 4. 1894. Out of print.

Circular 3. A nodular tæniasis in fowls. By Veranus A. Moore. Pp. 4, figs. 2. 1895.\* Out of print.

Circular 4. Crossing improved breeds of swine with the common hogs of Florida. By Robert W. Furnas. Pp. 3. 1895.

Circular 5. The direct transmission of infectious entero-hepatitis in turkeys. By Veranus A. Moore. Pp. 8, figs. 7. 1896. Out of print.

Same, revised by John R. Mohler. Blackhead, or infectious entero-hepatitis in turkeys. Pp. 8, figs. 7. 1905.

\*Circular 6. Black quarter. By D. E. Salmon. Pp. 4. 1896. (Reprint from Tenth and Eleventh Annual Reports.) Out of print. (Superseded by Circulars 23 and 31.)

Circular 7. Actinomycosis, or lumpy jaw. By D. E. Salmon. Pp. 4. 1896. (Reprint from Tenth and Eleventh Annual Reports.) Out of print. (Superseded by Circular 96.)

Circular 8. Injuries to cattle from swallowing pointed objects. By Theobald Smith and Charles F. Dawson. Pp. 4. 1896. (Reprint from Tenth and Eleventh Annual Reports.) Out of print.

Circular 9. Check list of the animal parasites of chickens. By Albert Hassall. Pp. 7. 1896. Out of print.

Circular 10. List of the State dairy commissioners and associations of dairymen in the United States and Canada for 1896. Pp. 6. 1896. Out of print.

\*Circular 11. How to select good cheese. By Henry E. Alvord. Pp. 11. 1896. Out of print.

Circular 12. Check list of the animal parasites of turkeys. By Albert Hassall. Pp. 3. 1896. Out of print.

Circular 13. Check list of the animal parasites of ducks. By Albert Hassall. Pp. 7. 1896. Out of print.

\*Circular 14. Check list of the animal parasites of geese. By Albert Hassall. Pp. 5. 1896. Out of print.

\*Circular 15. Check list of the animal parasites of pigeons. By Albert Hassall. Pp. 4. 1896. Out of print.

Circular 16. Correspondence defining filled cheese. Pp. 2. 1896. Out of print.

Circular 17. Exports of animals and their products. By D. E. Salmon. Pp. 3. 1897.

\*Circular 18. List of officials and associations connected with the dairy interests in the United States and Canada for 1897. Pp. 8. 1897. Out of print.

Circular 19. Factory cheese and how it is made. By G. Merry. Pp. 8. 1897. (Reprint from Bulletin 15.)

Circular 20. Preventive vaccination against blackleg. By D. E. Salmon. Pp. 2. 1897. Out of print. (Superseded by Circulars 23 and 31.)

Circular 21. Directions for use of blackleg vaccine. By D. E. Salmon. Pp. 8, figs. 2. 1897. Out of print. (Superseded by Circular 23, second revision.)

\*Circular 22. List of officials and associations connected with the dairy interests of the United States and Canada for 1898. Pp. 8. 1898. Out of print.

Circular 23. Blackleg: Its nature, cause, and prevention. By Victor A. Nörgaard. Pp. 12, figs. 2. 1898. Out of print.

Same, revised. Pp. 15, figs. 3. 1899. Out of print.

Same, second revision. Directions for the use of blackleg vaccine. Pp. 8, figs. 3. 1900.

Circular 24. Colored spots in cheese. By R. A. Pearson. Pp. 6. 1898. Out of print.

Circular 25. State standards for dairy products. By R. A. Pearson. P. 1. 1898. Out of print.

Same, revised. State standards for dairy products, 1902. Pp. 3. 1902. Out of print.

Circular 26. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1899. Pp. 8. 1899.

Circular 27. Scales of points in use in the United States for judging the dairy breeds of cattle. Pp. 16, fig. 1. 1899. (Reprint from Fifteenth Annual Report.) Out of print.

Circular 28. Letters relating to the distribution of vaccine. Pp. 9. 1899.

Circular 29. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1900. Pp. 10. 1900.

Circular 30. Rabies in the District of Columbia. By D. E. Salmon. Pp. 15. 1900. Out of print.

Circular 31. Blackleg: Its nature, cause, and prevention. By Victor A. Nörgaard. Pp. 22. 1900. Out of print.

Circular 31, revised. Pp. 23, fig. 1. 1900.

Circular 32. The Imperial German meat-inspection law. [In English and German.] Pp. 19. 1901.

Circular 33. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1901. Pp. 8. 1901.

Circular 34. Notes on parasites—55-57. By Ch. Wardell Stiles and Albert Hassall. Pp. 4. 1901. Out of print.

Circular 35. Treatment for roundworms in sheep, goats, and cattle. By Ch. Wardell Stiles. Pp. 8. 1901.

\*Circular 36. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1902. Pp. 8. 1902. Out of print.

Circular 37. Preliminary report on Argentina as a market for purebred cattle from the United States. By D. E. Salmon. Pp. 4. 1902.

Circular 38. Foot-and-mouth disease; warning to all owners of cattle, sheep, and swine. By D. E. Salmon. Pp. 3. 1902.

This circular was issued for temporary use during the outbreak of foot-and-mouth disease in New England, 1902-3.

Circular 39. The water content of creamery butter. By Henry E. Alvord. Pp. 4. 1903.

Circular 40. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1903. Pp. 11. 1903.

Circular 41. A form of hog cholera not caused by the hog-cholera bacillus. By E. A. de Schweinitz and M. Dorset. Pp. 4. 1903.

Circular 42. Information concerning common goats. By George Fayette Thompson. Pp. 14. 1903.

Circular 43. Immunization from hog cholera. Pp. 3. 1904. Out of print.

Circular 44. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1904. Pp. 12. 1904.

Circular 45. Milk fever: Its simple and successful treatment. By John R. Mohler. Pp. 13, figs. 2. 1904. Out of print. (Now published as Farmers' Bulletin 206).

Circular 46. The International Dairy Federation and international dairy congresses. By Henry E. Alvord. Pp. 14. 1904.

\*Circular 47. A new parasite (*Strongylus quadriradiatus* n. sp.) found in the pigeon. By Earle C. Stevenson. Pp. 6, figs. 10. 1904. Out of print.

Circular 48. Scales of points for judging cattle of dairy breeds. By Henry E. Alvord. Pp. 14, fig. 1. 1904.

Circular 49. United States and State standards for dairy products, 1904. Pp. 2. 1904. Out of print.

Circular 50. Information for importers of animals for breeding purposes. By George M. Rommel. Pp. 16. 1904.

Circular 51. Mycotic stomatitis of cattle. By John R. Mohler. Pp. 6, fig 1. 1904.

Circular 52. A chemical examination of various tubercle bacilli. By E. A. de Schweinitz and M. Dorset. Pp. 9. 1904. (Reprint from Twentieth Annual Report.) Out of print.

Circular 53. The Government's importation of camels: A historical sketch. By Charles C. Carroll. Pp. 21. 1904. (Reprint from Twentieth Annual Report.)

Circular 54. Pathological report on a case of rabies in a woman. By John R. Mohler. Pp. 8, pl. 1. 1904. (Reprint from Twentieth Annual Report.)

Circular 55. Reindeer and caribou. By C. C. Georgeson. Pp. 16, pls. 7. 1904. (Reprint from Twentieth Annual Report.)

Circular 56. Facts concerning the history, commerce, and manufacture of butter. By Harry Hayward. Pp. 24. 1904. (Reprint from Twentieth Annual Report.)

Circular 57. Invisible micro-organisms. By M. Dorset. Pp. 20. 1904. (Reprint from Twentieth Annual Report.)

Circular 58. Pulmonary mycosis of birds—with report of a case in a flamingo. By John R. Mohler and John S. Buckley. Pp. 16, pls. 5. 1904. (Reprint from Twentieth Annual Report.)

Circular 59. Influence of formaldehyde on the digestive enzymes. By T. M. Price. Pp. 9. 1904. (Reprint from Twentieth Annual Report.) Out of print.

Circular 60. Certain variations in the morphology of tubercle bacilli of bovine origin. By C. N. McBryde. Pp. 7, pls. 2. 1904. (Reprint from Twentieth Annual Report.)

Circular 61. The desirability of phosphates as an addition to culture media for tubercle bacilli. By M. Dorset. Pp. 4, pls. 2. 1904. (Reprint from Twentieth Annual Report.)

Circular 62. A plan for the improvement of American breeding stock. By George M. Rommel. Pp. 11. 1904. (Reprint from Twentieth Annual Report.)

Circular 63. A review of some experimental work in pig feeding. By George M. Rommel. Pp. 53. 1904. (Reprint from Twentieth Annual Report.)

Circular 64. A new nematode (*Gongylonema ingluvicola*), parasitic in the crop of chickens. By Brayton H. Ransom. Pp. 3, figs. 2. 1904.

Circular 65. Ophthalmia in cattle. By M. R. Trumbower. Revised by Leonard Pearson. Pp. 2. 1905. (Reprint from Special report on diseases of cattle.)

Circular 66. Osteomalacia, or creeps, in cattle. By V. T. Atkinson. Revised by John R. Mohler. Pp. 2. 1905. (Reprint from Special report on diseases of cattle.)

Circular 67. Abortion, or slinking the calf. By James Law. Pp. 11. 1905. (Reprint from Special report on diseases of cattle.)

Circular 68. Diseases of the stomach and bowels of cattle. By A. J. Murray. Revised by Leonard Pearson. Pp. 10. 1905. (Reprint from Special report on diseases of cattle.)

Circular 69. Texas fever, or southern cattle fever. By D. E. Salmon and Theobald Smith. Revised by D. E. Salmon and John R. Mohler. Pp. 13. 1905. (Reprint from Special report on diseases of cattle.)

Circular 70. Tuberculosis of cattle. By D. E. Salmon and Theobald Smith. Revised by D. E. Salmon and John R. Mohler. Pp. 28. 1905. (Reprint from Special report on diseases of cattle.)

Circular 71. Anthrax in cattle, horses, and men. By D. E. Salmon and Theobald Smith. Revised by D. E. Salmon and John R. Mohler. Pp. 10. 1905. (Reprint from Special report on diseases of cattle and Special report on diseases of the horse.)

Circular 72. New facts concerning the etiology of hog cholera. By E. A. de Schweinitz and M. Dorset. Pp. 8. 1905. (Reprint from Twentieth Annual Report.) Out of print.

Circular 73. Distribution and magnitude of the poultry and egg industry. By George Fayette Thompson. Pp. 22, fig. 1. 1905. (Reprint in condensed form from Nineteenth Annual Report.)

Circular 74. United States and State standards for dairy products, 1905. Pp. 2. 1905. Same, revised. Pp. 2. 1905.

Circular 75. Feeding fat into milk; or the effect of the food upon the quality and quantity of milk produced. By Charles D. Woods and A. W. Bitting. Pp. 43. 1905. (Reprint from Nineteenth Annual Report.)

Circular 76. Dairy methods in Great Britain, Ireland, Denmark, Holland, Channel Islands, France, Austria-Hungary, Germany, and Switzerland. By Willard John Kennedy. Pp. 32. 1905. (Reprint from Bulletin 77.)

Circular 77. Animal breeding and feeding investigations by the Bureau of Animal Industry. By D. E. Salmon. Pp. 14, pl. 1, fig. 1. 1905. (Reprint from Yearbook, 1904.)

Circular 78. Glanders and farcy. By Rush Shippen Huidekoper. Revised by Leonard Pearson. Pp. 12. 1905. (Reprint from Special report on diseases of the horse.)

Circular 79. The tuberculin test for tuberculosis. By D. E. Salmon. Pp. 14. 1905. (Reprint from Yearbook, 1901.)

Circular 80. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1905. Pp. 12. 1905.

Circular 81. The sheep industry of England, Scotland, Ireland, and France. By Willard John Kennedy. Pp. 19. (Reprint from Bulletin 77.)

Circular 82. Hints to poultry raisers. By G. Arthur Bell. Pp. 3. 1905.

Circular 83. Danger of infection with tuberculosis by different kinds of exposure. By E. C. Schroeder and W. E. Cotton. Pp. 23. 1905. (Reprint from Twenty-first Annual Report.)

Circular 84. Enzymes in cornstalks and their relation to cornstalk disease. By T. M. Price. Pp. 11. 1905. (Reprint from Twenty-first Annual Report.)

Circular 85. The tapeworms of American chickens and turkeys. By B. H. Ransom. Pp. 19, figs. 31. 1905. (Reprint from Twenty-first Annual Report.)

Circular 86. Alfalfa for the growing and fattening of animals in the Great Plains region. By I. D. Graham. Pp. 27. 1905. (Reprint from Twenty-first Annual Report.)

Circular 87. Hunter-horse production in Ireland. By Willard John Kennedy. Pp. 41, pls. 8. 1905. (Reprint from Twenty-first Annual Report.)

Circular 88. Highland cattle. By John Roberts. Pp. 17. 1905. (Reprint from Twenty-first Annual Report.) Out of print.

Circular 89. The preparation of emulsions of crude petroleum. By T. M. Price. Pp. 4. 1905.

Circular 90. Suggestions for construction of a modern dairy barn. Pp. 6, figs. 2. 1906.

Circular 91. *Bacillus necrophorus* and its economic importance. By John R. Mohler and George Byron Morse. Pp. 42. 1906. (Reprint from Twenty-first Annual Report.)

Circular 92. The poultry industry of Petaluma, Cal. By P. H. Lawler. Pp. 8, pls. 3. 1906. (Reprint from Twenty-first Annual Report.) Out of print.

Circular 93. The life history of the twisted wireworm (*Haemonchus contortus*) of sheep and other ruminants. (Preliminary report.) By B. H. Ransom. Pp. 7, figs. 2. 1906.

Circular 94. Foot rot of sheep. By John R. Mohler and Henry J. Washburn. Pp. 23, fig. 1. 1906. (Reprint from Twenty-first Annual Report.)

Circular 95. The fecundity of Poland-China and Duroc-Jersey sows. By George M. Rommel. Pp. 12. 1906.

Circular 96. Actinomycosis, or lumpy jaw. By D. E. Salmon and Theobald Smith. Revised by D. E. Salmon and John R. Mohler. Pp. 10. 1906. (Reprint from Special report on diseases of cattle.)

Circular 97. How to get rid of cattle ticks. Pp. 4, fig. 1. 1906.

Circular 98. Some unusual host relations of the Texas fever tick. By B. H. Ransom. Pp. 8. 1906.

Circular 99. Officials, associations, and educational institutions connected with the dairy interests of the United States for the year 1906. Pp. 14. 1906.

Circular 100. A rapid method for the determination of water in butter. By C. E. Gray. Pp. 6, figs. 2. 1906.

Circular 101. The new meat-inspection law and its bearing upon the production and handling of meats. By George P. McCabe. Pp. 16. 1907.

Circular 102. Stomach worms (*Haemonchus contortus*) in sheep. By B. H. Ransom. Pp. 7. 1907.

Circular 103. Records of dairy cows: Their value and importance in economic milk production. By Clarence B. Lane. Pp. 38, figs. 10. 1907. (Reprint from Twenty-second Annual Report.)

Circular 104. Welsh Black cattle. By John Roberts. Pp. 20, pls. 5. 1907. (Reprint from Twenty-second Annual Report.)

Circular 105. Baby beef. By Ernest G. Ritzman. Pp. 34, pls. 2, figs. 3. 1907. (Reprint from Twenty-second Annual Report.)

Circular 106. Publications of the Bureau of Animal Industry. Pp. 24. 1907.

Circular 107. Capons and caponizing. By Rob R. Slocum. Pp. 10, figs. 7. 1907. (Reprint from Twenty-second Annual Report.)

Circular 108. Trichinosis: A danger in the use of raw pork for food. By B. H. Ransom. Pp. 6, figs. 5. 1907.

#### REPRINTS FROM ANNUAL REPORTS.

In requesting these publications give number of reprint, complete title of article, and number of annual report.]

#### FOURTEENTH REPORT (1897).

118. National and State dairy laws. Compiled and abstracted by R. A. Pearson. Pp. 182. 1898.

#### FIFTEENTH REPORT (1898).

126. Blackleg in the United States and the distribution of vaccine by the Bureau of Animal Industry. By Victor A. Nörgaard. Pp. 59, pls. 2, figs. 3. 1899.

127. Experimental exports of butter, 1897. By Henry E. Alvord. Pp. 54, pl. 1, figs. 7. 1899.

128. Breeds of dairy cattle. By Henry E. Alvord. Pp. 64, pl. 1, figs. 25. 1899. (Reissued as Farmers' Bulletin 106.)

130. Preliminary catalogue of plants poisonous to stock. By V. K. Chesnut. Pp. 42, figs. 32. 1899.

#### SIXTEENTH REPORT (1899).

144. Statistics of oleomargarine, oleo oil, and filled cheese. By R. A. Pearson. Pp. 36, fig. 1. 1900.

145. Report upon experimental exports of butter, 1898-99. By Henry E. Alvord. Pp. 91, fig. 1. 1900.

147. Foreign markets for eggs and poultry. By Henry E. Alvord, Newton B. Ashby, and S. Lowe. Pp. 27. 1900.

148. Experiments with Texas fever and southern cattle ticks. By E. C. Schroeder and W. E. Cotton. Pp. 22. 1900.

149. A report upon the examination of milk. By E. A. de Schweinitz. The international congress for the consideration of the best methods for checking or curing tuberculosis. By E. A. de Schweinitz. Culture media for biochemical investigations. By E. A. de Schweinitz. Pp. 20. 1900.

150. Notes on the animal industry of Porto Rico. By O. F. Cook. Pp. 7, pls. 10. 1901.

151. The nature, cause, and economic importance of ovine caseous lymphadenitis. By Victor A. Nörgaard and John R. Mohler. Pp. 26, pls. 7. 1901.

153. Our present knowledge of the kidney worm (*Sclerostoma pinguicola*) of swine. By Louise Tayler. Pp. 27, figs. 16. 1900.

162. The seventh international veterinary congress. By Victor A. Nörgaard. Pp. 25. 1901.

SEVENTEENTH REPORT (1900).

172. Market milk: A plan for its improvement. By R. A. Pearson. Pp. 39, pls. 10. 1901.

176. Meats and meat products at the Paris Exposition of 1900. By Henry E. Alvord. Pp. 14. 1901.

178. The bacillus of tuberculosis. By E. A. de Schweinitz. Pp. 22. 1901.

185. Verminous diseases of cattle, sheep, and goats in Texas. By Ch. Wardell Stiles. Pp. 27. 1902.

EIGHTEENTH REPORT (1901).

197. The dairy industry and dairy markets in Porto Rico, with notes on St. Thomas and Cuba. By R. A. Pearson. Pp. 99, pls. 35, figs. 6. 1902.

198. The significance of the recent American cases of hookworm disease (uncinariasis, or ancylostomiasis) in man. By Ch. Wardell Stiles. Pp. 44, figs. 84. 1902.

200. Further investigations on verminous diseases of cattle, sheep, and goats in Texas. By Ch. Wardell Stiles. Pp. 11. 1902.

201. Frogs, toads, and carp (*Cyprinus carpio*) as eradicators of fluke disease. By Ch. Wardell Stiles. Pp. 4, figs. 7. 1902.

NINETEENTH REPORT (1902).

230. Sheep ranching in the Western States. By E. V. Wilcox. Pp. 22, pls. 12. 1903.

232. The American saddle horse. By John B. Castleman. Pp. 20, pls. 5. 1903.

236. Foot-and-mouth disease. By D. E. Salmon. Pp. 24, pls. 13, map 1. 1903.

**FARMERS' BULLETINS.**

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers relating to the animal industry and now available for distribution.]

Farmers' Bulletin 22. The feeding of farm animals. By E. W. Allen, Office of Experiment Stations. Second revision. Pp. 40. 1901.

Farmers' Bulletin 24. Hog cholera and swine plague. By D. E. Salmon. Revised edition. Pp. 16. 1899.

Farmers' Bulletin 29. Souring of milk and other changes in milk products. Prepared in the Office of Experiment Stations. Pp. 23. 1897.

Farmers' Bulletin 32. Silos and silage. By Charles S. Plumb. Pp. 29, figs. 10. 1895.

Farmers' Bulletin 34. Meats: Composition and cooking. By Charles D. Woods, Office of Experiment Stations. Pp. 23. 1896.

Farmers' Bulletin 41. Fowls: Care and feeding. By G. C. Watson. Revised edition. Pp. 23, figs. 4. 1904.

Farmers' Bulletin 42. Facts about milk. By R. A. Pearson. Revised edition. Pp. 32, figs. 8. 1906.

Farmers' Bulletin 49. Sheep feeding. By John A. Craig. Pp. 24. 1897.

Farmers' Bulletin 51. Standard varieties of chickens. By George E. Howard. Revised by G. Arthur Bell. Pp. 46, figs. 25.

Farmers' Bulletin 55. The dairy herd: Its formation and management. By H. E. Alvord. Revised edition. Pp. 31. 1904.

Farmers' Bulletin 63. Care of milk on the farm. By R. A. Pearson. Revised edition. Pp. 40, figs. 11. 1906.

Farmers' Bulletin 64. Ducks and geese: Standard breeds and management. By George E. Howard. Revised by G. Arthur Bell. Pp. 56, figs. 32. 1906.

Farmers' Bulletin 71. Some essentials in beef production. By Charles F. Curtiss. Pp. 24, figs. 17. 1898.

Farmers' Bulletin 72. Cattle ranges of the Southwest: A history of the exhaustion of the pasturage and suggestions for its restoration. By H. L. Bentley. Pp. 31, figs. 9. 1898.

Farmers' Bulletin 74. Milk as food. Prepared in the Office of Experiment Stations. Pp. 39. 1898.

Farmers' Bulletin 96. Raising sheep for mutton. By Charles F. Curtiss. Pp. 48, figs. 18. 1899.

Farmers' Bulletin 100. Hog raising in the South. By S. M. Tracy. Pp. 40. 1899.

Farmers' Bulletin 106. Breeds of dairy cattle. By Henry E. Alvord. Pp. 48, figs. 21. 1899.

Farmers' Bulletin 125. Protection of food products from injurious temperatures. By H. E. Williams, Weather Bureau. Pp. 25. 1901.

Farmers' Bulletin 128. Eggs and their uses as food. By C. F. Langworthy, Office of Experiment Stations. Pp. 32. 1901.

Farmers' Bulletin 131. Household tests for the detection of oleomargarine and renovated butter. By G. E. Patrick, Bureau of Chemistry. Pp. 11. 1901.

Farmers' Bulletin 137. The Angora goat. By George Fayette Thompson. Pp. 48, figs. 7. 1901.

Farmers' Bulletin 141. Poultry raising on the farm. By D. E. Salmon. Pp. 16, figs. 31. 1901.

Farmers' Bulletin 143. Conformation of beef and dairy cattle. By Andrew M. Soule. Pp. 44, figs. 44. 1902.

Farmers' Bulletin 151. Dairying in the South. By S. M. Tracy. Pp. 48, figs. 4. 1902.

Farmers' Bulletin 152. Scabies in cattle. By Richard W. Hickman. Revised edition. Pp. 32, figs. 17. 1904.

Farmers' Bulletin 159. Scab in sheep. By D. E. Salmon and Ch. Wardell Stiles. Pp. 48, figs. 17. 1903.

Farmers' Bulletin 166. Cheese making on the farm. By Henry E. Alvord. Pp. 16, figs. 3. 1903.

Farmers' Bulletin 170. Principles of horse feeding. By C. F. Langworthy, Office of Experiment Stations. Pp. 44. 1903.

Farmers' Bulletin 177. Squab raising. By William E. Rice. Revised edition. Pp. 31, figs. 11. 1904.

Farmers' Bulletin 179. Horseshoeing. By John W. Adams. Pp. 30, figs. 18. 1903.

Farmers' Bulletin 182. Poultry as food. By Helen W. Atwater. (Prepared under the supervision of the Office of Experiment Stations.) Pp. 40. 1903.

Farmers' Bulletin 183. Meat on the farm; butchering, curing, and keeping. By Andrew Boss. Revised edition. Pp. 38, figs. 35. 1906.

Farmers' Bulletin 184. Marketing live stock. By Charles S. Plumb. Pp. 40. 1903.

Farmers' Bulletin 200. Turkeys: Standard varieties and management. By T. F. McGrew. Pp. 40, figs. 12. 1904.

Farmers' Bulletin 201. The cream separator on western farms. By Ed. H. Webster and C. E. Gray. Pp. 24. 1904.

Farmers' Bulletin 205. Pig management. By George M. Rommel. Pp. 40, figs. 22. 1904.

Farmers' Bulletin 206. Milk fever: Its simple and successful treatment. By John R. Mohler. Pp. 16, figs. 2. 1904.

Farmers' Bulletin 226. The relation of coyotes to stock raising in the West. By David E. Lantz, Biological Survey. Pp. 23, fig. 1. 1905.

Farmers' Bulletin 234. The guinea fowl and its use as food. By C. F. Langworthy, Office of Experiment Stations. Pp. 24, figs. 3. 1905.

Farmers' Bulletin 236. Incubation and incubators. By Richard H. Wood. Pp. 32, figs. 11. 1905.

Farmers' Bulletin 241. Butter making on the farm. By Ed. H. Webster. Pp. 31, 1905.

Farmers' Bulletin 258. Texas or tick fever and its prevention. By John R. Mohler. Pp. 45, figs. 6. 1906.

Farmers' Bulletin 261. The cattle tick in its relation to southern agriculture. By August Mayer. Pp. 22. 1906.

Farmers' Bulletin 272. A successful hog and seed-corn farm. By W. J. Spillman, Bureau of Plant Industry. Pp. 16, figs. 5. 1906.

#### YEARBOOK ARTICLES.

[Articles on animal industry subjects have appeared in Yearbooks of the Department as shown in the following list. Those followed by numbers in parentheses can be furnished by the Department as separate reprints in pamphlet form. In making application for such reprints both numbers and titles should be given.]

Yearbook of the Department of Agriculture, 1894. Pp. 608, pls. 7, fig. 140. 1895.  
Price, cloth, 50 cents.  
The Federal meat inspection.  
The dairy herd: Its formation and management. (Reissued as Farmers' Bulletin 55.)  
Some practical suggestions for the suppression and prevention of bovine tuberculosis. (No. 15.)  
The pasteurization and sterilization of milk.

Yearbook of the Department of Agriculture, 1895. Pp. 656, pls. 11, figs. 134. 1896.  
Price, cloth, 55 cents.  
Inefficiency of milk separators in removing bacteria.  
Butter substitutes. (No. 44.)  
The manufacture and consumption of cheese.

Yearbook of the Department of Agriculture, 1896. Pp. 686, pls. 7, figs. 164. 1897.  
 Price, cloth, 50 cents.  
 The country slaughterhouse as a factor in the spread of disease.  
 Some modern disinfectants.  
 Care of dairy utensils.  
 Some standard varieties of chickens. (Reissued as Farmers' Bulletin 51.)

Yearbook of the Department of Agriculture, 1897. Pp. 792, pls. 41, figs. 45. 1898.  
 Price, cloth, 60 cents.  
 Bureau of Animal Industry. (No. 93.)  
 Utilization of by-products of the dairy. (No. 94.)

Yearbook of the Department of Agriculture, 1898. Pp. 768, pls. 42, figs. 136. 1899.  
 Price, cloth, 60 cents.  
 The preparation and use of tuberculin. (No. 131.)  
 Keeping goats for profit.  
 Cattle dipping, experimental and practical. (No. 130.)

Yearbook of the Department of Agriculture, 1899. Pp. 880, pls. 64, figs. 33. 1900.  
 Price, cloth, 75 cents.  
 Some examples of the development of knowledge concerning animal diseases.  
 Dairy development in the United States.  
 Administrative work of the Federal Government in relation to the animal industry.  
 Succulent forage for the farm and dairy.  
 Work of the breeder in improving live stock.

Yearbook of the Department of Agriculture, 1900. Pp. 888, pls. 88, figs. 88. 1901.  
 Price, cloth, 75 cents.  
 Rabies: Its cause, frequency, and treatment. (No. 192.)  
 Some poisonous plants of the northern stock ranges. (No. 206.)  
 Dairy products at the Paris Exposition of 1900.

Yearbook of the Department of Agriculture, 1901. Pp. 846, pls. 91, figs. 52. 1902.  
 Price, cloth, 80 cents.  
 Progress in plant and animal breeding.  
 Mohair and mohair manufactures.  
 The tuberculin test for tuberculosis. (Reissued as Bureau of Animal Industry Circular 79.)

Yearbook of the Department of Agriculture, 1902. Pp. 912, pls. 88, figs. 62. 1903.  
 Price, cloth, 85 cents.  
 Dairying at home and abroad. (No. 260.)  
 Distribution and magnitude of the poultry and egg industry. (Reissued as Bureau of Animal Industry Circular 73.)  
 Selecting and judging horses for market and breeding purposes.  
 Foot-and-mouth disease.

Yearbook of the Department of Agriculture, 1903. Pp. 728, pls. 66, figs. 54. 1904.  
 Price, cloth, 75 cents.  
 Relations of Federal Government to control of contagious diseases of animals.

Yearbook of the Department of Agriculture, 1904. Pp. 776, pls. 76, figs. 64. 1905.  
 Price, cloth, 65 cents.  
 Animal breeding and feeding investigations by the Bureau of Animal Industry. (Reissued as Bureau of Animal Industry Circular 77.)

Yearbook of the Department of Agriculture, 1905. Pp. 815, pls. 73, figs. 130. 1906.  
 Price, cloth, \$1.  
 How parasites are transmitted.  
 Renovated butter: Its origin and history. (No. 390.)

#### MISCELLANEOUS PUBLICATIONS.

Contagious diseases of domestic animals. Investigations by Department of Agriculture, 1883-84. Pp. 368, pls. 14, map 1. 1884. Out of print.  
 Similar reports were issued for the years 1879-1882, before the organization of the Bureau of Animal Industry. All are now out of print.

Report of the proceedings of the national convention of cattle breeders and others, at Chicago, November 14, 1884. Pp. 21. 1884. Out of print.

Addresses of Hon. Norman J. Colman, U. S. Commissioner of Agriculture, and Dr. D. E. Salmon, Chief of the Bureau of Animal Industry, before the third national convention of stockmen, held at Chicago, Ill., November 17 and 18, 1885. Pp. 29. 1885. Out of print.

Report upon an examination of wools and other animal fibers. By William McMurtrie. Pp. 613, pls. 9. 1886. Out of print.

Report on the condition of dairying in the principal dairy States for the season of 1885. By Allen Dodge. Pp. 35. 1886. Out of print.

Addresses of Hon. Norman J. Colman, U. S. Commissioner of Agriculture, and Dr. D. E. Salmon, Chief of the Bureau of Animal Industry, delivered before the national cattle growers' convention, held at Kansas City, Mo., October 31 and November 1 and 2, 1887. Pp. 11. 1887. Out of print.

Hog cholera: Its history, nature, and treatment, as determined by the inquiries and investigations of the Bureau of Animal Industry. Pp. 197, pls. 16. 1889. Out of print.

Report of the U. S. board of inquiry concerning epizootic diseases among swine. Pp. 15. 1889. Out of print.

The animal parasites of sheep. By Cooper Curtice. Pp. 222, pls. 36. 1890. Out of print.

Proceedings of an interstate convention of cattlemen, held at Fort Worth, Tex., Tuesday, Wednesday, and Thursday, March 11, 12, and 13, 1890. Pp. 102. 1890. Out of print.

Report on inoculation as a preventive of swine diseases. Pp. 10. 1890. Price 5 cents.

Report on the beef supply of the United States, and the export trade in animals and meat products. By D. E. Salmon. Pp. 15. 1890. Out of print.

Special report on diseases of the horse. By Ch. B. Michener, James Law, W. H. Harbaugh, M. R. Trumbower, A. Liautard, A. A. Holcombe, Rush Shippen Huidekoper, and William Dickson. Pp. 560, pls. 44. 1890. Out of print.

Same, reprinted by order of Congress. Pp. 576, pls. 44. 1896. Out of print.

Same, revised edition. By Leonard Pearson, Ch. B. Michener, James Law, W. H. Harbaugh, M. R. Trumbower, A. Liautard, A. A. Holcombe, Rush Shippen Huidekoper, Ch. Wardell Stiles, and John W. Adams. Pp. 600, pls. 41, figs. 18. 1903. Price, cloth, 65 cents.

Special report on the cause and prevention of swine plague. By Theobald Smith. Pp. 166, pls. 12. 1891. Out of print.

Special report on the history and present condition of the sheep industry of the United States. By Ezra A. Carman, H. A. Heath, and John Minto. Pp. 1,000, pls. 96. 1892. Price, cloth, \$1.40.

Special report on diseases of cattle and on cattle feeding. By A. J. Murray, V. T. Atkinson, W. H. Harbaugh, William Herbert Lowe, James Law, William Dickson, M. R. Trumbower, D. E. Salmon, Theobald Smith, and W. A. Henry. Pp. 496, pls. 44. 1892. Price, cloth, 65 cents.

Same, reprinted by order of Congress. 1896. Out of print.

Special report on diseases of cattle. Revised edition. By Leonard Pearson, A. J. Murray, V. T. Atkinson, William Herbert Lowe, W. H. Harbaugh, James Law, William Dickson, John R. Mohler, M. R. Trumbower, D. E. Salmon, Theobald Smith, and Ch. Wardell Stiles. Pp. 533, pls. 52, figs. 12. 1904. Price, cloth, 65 cents.

Progress report on the dairy industry of Denmark. By C. C. Georgeson. Pp. 14. 1893. Out of print.

Insects affecting domestic animals. By Herbert Osborn. (Bulletin 5, new series, Division of Entomology.) Pp. 302, pls. 5, figs. 170. 1896. Price, 20 cents.

Special report on the market for American horses in foreign countries. Pp. 94, pls. 6. 1898. Price, 10 cents.

Sheep and wool: A review of the progress of American sheep husbandry. By J. R. Dodge. Pp. 63, figs. 3. 1900. Out of print.

Index to literature relating to animal industry in the publications of the Department of Agriculture, 1837 to 1898. By George Fayette Thompson. (Bulletin 5, Division of Publications.) Pp. 676. 1900. Price, 35 cents.

Maps showing the boundary line of the district infected with splenetic or southern fever of cattle. 1891-1906.

The latest map will be sent on request. Most back numbers are out of print.

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